

CLAIMS

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1. Foil bag comprising flattened and optionally side folded foil bag portions which is provided with a sealed bottom and with a number of punched openings in the vicinity of the upper edges of the foil bag to be unfolded, whereby a bundle of foil bags is being positioned and supported upon an additional bar shaped pin support of a supporting device provided on a foil bag opening machine,
- 10 characterized in that the foil bag is provided adjacent to its upper edge with one or more openings having a diameter which is substantially equal or even greater than the external pin diameter of the support and whereas the foil bag is also provided with at least one foil bag portion provided with one or more
- 15 incisions in the foil bag material at a certain distance from the opening in a circumferential direction, in such a way that during the opening process of the folded foil bag during a first step the front of the flat folded foil bag portion is pulled off the pin support and consequently during a second step the rearward flat foil bag portion is pulled off from the pin support in such a way that the
- 20 incisions will remove the undesirable mutually adherence of the foil bag portions by introducing additional air between the opposite adhering foil bag portions while being pulled off the pin support so that the foil bag is completely and easily and problemless opened starting from the front flat foil bag portion wereafter the rearward flat foil bag portion is pulled off further from the pin
- 25 support.
2. Foil bag according to claim 1, characterized in that the upper edges of the foil bag for the purpose of being opened is provided with at least one punched opening having approximately the same external diameter as the pin support.
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3. Foil bag according to claim 1, characterized in that an incision is provided at a minimum distance from the external circumference of the opening, in such a

way that the suspension of the foil bag by means of its opening on the pin support is secured.

4. Foil bag according to claims 1 or 2, characterized in that the rearward flat foil bag portion is not provided with such incisions extending from the upper edge to the opening.
5. Foil bag according to claim 4, characterized in that the front flat foil bag is provided with incisions extending from the upper edge to the said opening.
6. Foil bag according to claim 5, characterized in that front side folds are provided with openings and incisions similar to the front flat foil bag portion.
7. Foil bag according to claims 4 or 6, characterized in that the rearward side folds are provided with openings and incisions similar to the rearward flat foil portion.
8. Foil bag according to any one of the preceding claims 1-7, characterized in that the incisions extend in radial direction with respect to the circular opening.
9. Foil bag according to any one of the preceding claims 1-7, characterized in that the incision comprises a continuously punched cut.
10. Foil bag according to any one of the preceding claims 1-7, characterized in that the incisions are interruptedly punched cuttings or perforation.
11. Foil bag according to any one of the preceding claims 1-10, characterized in that the opening is of a polygonal shape (circular, oval, triangular, square, star shaped or the like) and by incisions extending in a circumferential direction around the opening.
12. Foil bag according to any one of the preceding claims 1-10, characterized in that the internal circumferential border of the opening is provided with an

amount of polygonal modular shapes, in such a way that the required shear and tensile movement of the foil bag is promoted from the point of connection with respect to the pin support.

- 5 13. Foil bag according to any one of the preceding claims 3-10, characterized in that the incision provided at a minimum distance from the external circumference is of a straight, curved, corrugated or of an other shape.
- 10 14. Foil bag according to any one of the preceding claims 1-7, characterized in that the incision is partly or completely formed as a punched opening.
- 15 15. Foil bag according to any one of the preceding claims 1-7, characterized in that the upper edge of the foil bag is provided perpendicularly thereof with straight incisions which extend from said upper edge to the external circumference of the opening and further extends beyond the lower circumferential edge over a length of at least few mm to about 1 à 2 cm.
- 20 16. Foil bag according to claim 14, characterized in that the incisions at least comprise a combined incision according to claim 9 and a polygonally shaped opening or perforation, e.g. in the shape of a triangle, a star or a similar perforated shape.
17. Foil bag according to any one of the preceding claims 1-7, characterized by having at least one incision and one perforation near its openings.